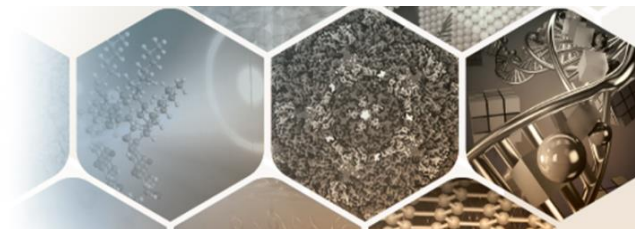


NSLS-II & CFN Joint Users' Meeting

Welcome all: Returning, first-time, and future users

This meeting will be held virtually.
May 23-26, 2022



Agenda May 23 - 26, 2022

Monday, May 23

- 9:00 a.m. – 5:00 p.m.** Exhibitor Hall Open
- 9:00 a.m. – 4:05 p.m.** **Workshop 3 - Correlated Topological Materials for Quantum Information Sciences**
Organizers: Mingda Li (MIT), Miao Hu (ORNL), Christie Nelson (BNL), and Xiaoqian Chen (BNL)
- 10:00 a.m. – 5:00 p.m.** **Workshop 1 – NSLS-II and CFN 101: Techniques, Applications, and Access in Energy Sciences**
Organizers: Priscilla Antunez (CFN/BNL), Lisa Miller (CFN/BNL), and Aleida Perez (Stakeholder and Community Relations/BNL)
- Workshop 2 – Electronic Structure of Nanomaterials: A Special Symposium in Honor of Dr. Mark Hybertsen**
Organizers: Deyu Lu (CFN/BNL), Qin Wu (CFN/BNL), Alexei Tkachenko (CFN/BNL), and Xiaohui Qu (CFN/BNL)
- Workshop 4 - Magneto-Optical-Electronic Properties of Nanomaterials and Their Applications**
Organizers: Mingxing Li (CFN/BNL), Mircea Cotlet (CFN/BNL), Deep Jariwalla (UPenn), and Don DiMarzio (NGC Next)
- 10:00 a.m. – 2:00 p.m.** **Workshop 5 – Understanding 3-D Printing of Soft Matter at the Molecular Level Instruments**
Organizers: Marcia Simon (SBU) and Miriam Rafailovich (SBU)
- 12:00 p.m. – 1:30 p.m.** Lunch and Exhibitor Networking Session
- 1:00 p.m. – 5:00 p.m.** **Workshop 6 - Data Access and Machine Learning at NSLS-II – A Tutorial (Part 1)**
Organizers: Stuart Campbell (NSLS-II/BNL), Dan Allan (NSLS-II/BNL), Phillip Maffettone (NSLS-II/BNL), Dan Olds (NSLS-II/BNL), and Andi Barbour (NSLS-II/BNL)
- 5:30 p.m. – 6:30 p.m.** Poster Viewing
- 6:30 p.m. – 8:00 p.m.** Poster Q&A Session and Contest (Presenters available)

Tuesday, May 24**Strategic Plenary Session**

- 8:00 a.m. – 5:00 p.m.** Poster Viewing – self-directed (open all day)
- 9:00 a.m. – 5:00 p.m.** Exhibitor Hall Open
- 10:00 a.m. – 10:10 a.m.** Welcome (Doon Gibbs)
- 10:10 a.m. – 10:35 a.m.** NSLS-II Update (John Hill)
- 10:35 a.m. – 11:00 a.m.** CFN Update (Chuck Black)
- 11:00 a.m. – 11:30 a.m.** BES Update (Linda Horton, Associate Director of Science for Basic Energy Sciences, U.S. Department of Energy)
- 11:30 a.m. – 11:45 a.m.** Q&A Session
Moderators: David Sprouster and Andreas Liapis
- 11:45 a.m. - 12:00 p.m.** Announcement of Incoming UEC Members
Paul Northrup and Trishelle Copeland-Johnson
- 12:00 p.m. – 1:00 p.m.** UEC Lunch with BES
- 12:00 p.m. – 1:30 p.m.** Lunch and Exhibitor Networking Session
- 1:00 p.m. – 1:30 p.m.** Facilities+
Flash talks - NSRCs and lightsources.org

Trishelle Copeland-Johnson, NSRCs
Silvana Westbury, lightsources.org
- 1:30 – 1:45 p.m.** Awards
UEC Community Service Award – *Paul Northrup*
Gus Prince Award – *Abram Ledbetter*
Chasman Award – *Edward Sierra*
- 1:45 p.m. – 2:05 p.m.** Julian Baumert Award Winner Presentation – *Ben Ocko*
- 2:05 p.m. – 2:35 p.m.** Poster Award Winners
Tabbatha Dobbins and Andreas Liapis
- 2:35 p.m. – 2:50 p.m.** Inclusion, Diversity and Equity
Paul Northrup
- 5:30 p.m. – 6:30 p.m.** We encourage all attendees to join us in the *vFairs' Live Chat* for networking

Wednesday, May 25

- 8:00 a.m. – 5:00 p.m.** Poster Viewing – self-directed (open all day)
- 8:00 a.m. – 12:00 p.m.** **Workshop 7 - 2D Materials and Beyond (Part 1)**

Organizers: Jurek Sadowski (CFN/BNL), Yukiko Yamada-Takamura (JAIST, Japan), Elio Vescovo (NSLS-II/BNL), and Turgut Yilmaz (NSLS-II/BNL)

Workshop 8 – SPM User Community Meetup: “Hand-on Open” Source SPM Software Virtual “Hack a Day” Learning Session and Future Outlook on Artificial Intelligence Driven Autonomous SPM (Part 1)

Organizers: Percy Zahl (CFN/BNL) and Thorsten Wagner (Johannes Kepler University Linz, Austria)

9:00 a.m. – 5:00 p.m.

Exhibitor Hall Open

12:00 p.m. – 1:30 p.m.

Lunch and Exhibitor Networking Session

12:30 p.m. – 5:20 p.m.

Workshop 9 - Advanced Metrology Needs for Addressing Critical Microelectronics Challenges

Organizers: Chang-Yong Nam (CFN/BNL), Yong Chu (NSLS-II/BNL), and Gabriella Carini (Instrumentation Division/BNL)

12:55 p.m. – 5:00 p.m.

Workshop 11 - Solvation Structure, Electrical Double Layer, and Interphases—Solving the Unsolvable

Organizers: Huolin Xin (UC Irvine), Ashley Head (CFN/BNL), Lu Ma (NSLS-II/BNL), Ira Waluyo (NSLS-II/BNL), Adrian Hunt (NSLS-II/BNL), Yonghua Du (NSLS-II/BNL), and Xiaojing Huang (NSLS-II/BNL)

1:00 p.m. – 5:00 p.m.

Workshop 6 - Data Access and Machine Learning at NSLS-II – A Tutorial (Part 2)

Organizers: Stuart Campbell (NSLS-II/BNL), Dan Allan (NSLS-II/BNL), Phillip Maffettone (NSLS-II/BNL), Dan Olds (NSLS-II/BNL), and Andi Barbour (NSLS-II/BNL)

Workshop 10 - Electron Backscattered Diffraction (EBSD) Tutorial: Fundamentals, Basic Data Acquisition and Analysis (Part 1) Organizers: Fernando Camino (CFN/BNL) and Glenn Kinnear (Oxford Instruments)

Workshop 12 - Correlating Soft-X ray Tomography with Cryo-Electron Tomography for High Resolution Analysis of Cellular Structure

Organizers: Stavros Lomvardas (Columbia University) and Carolyn Larabell (UC San Francisco)

5:00 p.m. – 6:00 p.m.

We encourage all attendees to join us in the vFairs’ Live Chat for networking

Thursday, May 26

8:00 a.m. – 5:00 p.m.

Poster Viewing – self-directed (open all day)

- 8:00 a.m. – 12:00 p.m.** **Workshop 7 - 2D Materials and Beyond (Part 2)**
Organizers: Jurek Sadowski (CFN/BNL), Yukiko Yamada-Takamura (JAIST, Japan), Elio Vescovo (NSLS-II/BNL), and Turgut Yilmaz (NSLS-II/BNL)
- Workshop 8 – SPM User Community Meetup: “Hands-on Open” Source SPM Software Virtual “Hack a Day” Learning Session and Future Outlook on Artificial Intelligence Driven Autonomous SPM (Part2)** *Organizers: Percy Zahl (CFN/BNL) and Thorsten Wagner (Johannes Kepler University Linz, Austria)*
- 8:20 a.m. – 5:00 p.m.** **Workshop 13 - Data-Driven Analysis, Characterization and Modeling in Battery Development and Manufacturing**
Organizers: Feng Wang (IS/BNL), Deyu Lu (CFN/BNL), Sooyeon Hwang (CFN/BNL), Matthew R. Carbone (CSI/BNL), Shinjae Yoo (CSI/BNL), and Mingyuan Ge (NSLS-II/BNL)
- 9:00 a.m. – 5:00 p.m.** Exhibitor Hall Open
- 10:00 a.m. – 5:00 p.m.** **Workshop 14 - What is BEST for Atmospheric Sciences?**
Organizers: Allison McComiskey (ECSD/BNL), Juergen Thieme (NSLS-II/BNL), and Daniel Knopf (SBU), and Yang Yang (NSLS-II/BNL)
- Workshop 15 - Diagnosing Microscopic Sources of Qubit Decoherence by Multimodal Materials Analysis**
Organizers: Andi Barbour (NSLS-II/BNL), Robert Cava (Princeton), Nathalie de Leon (Princeton), Steven Hulbert (NSLS-II/BNL), Mingzhao Liu (CFN/BNL), Dario Stacchiola (CFN/BNL), and Andrew Walter (NSLS-II/BNL)
- 12:00 p.m. – 1:30 p.m.** Lunch and Exhibitors Networking Session
- 1:00 p.m. – 5:00 p.m.** **Workshop 10 - Electron Backscattered Diffraction (EBSD) Tutorial: Fundamentals, Basic Data Acquisition and Analysis (Part 2)** *Organizers: Fernando Camino (CFN/BNL) and Glenn Kinnear (Oxford Instruments)*
- 5:00 p.m. – 6:00 p.m.** We encourage all attendees to join us in the *vFairs’ Live Chat* for networking